

Title (en)  
LEADLESS PACEMAKER SYSTEMS THAT MONITOR FOR ATRIAL CAPTURE

Title (de)  
LEITUNGSLOSE SCHRITTMACHERSYSTEME ZUR ÜBERWACHUNG DER VORHOFERFASSUNG

Title (fr)  
SYSTÈMES DE STIMULATEUR CARDIAQUE SANS CONDUCTEUR AVEC SURVEILLANCE DE CAPTURE AURICULAIRE

Publication  
**EP 3862048 B1 20230628 (EN)**

Application  
**EP 21151348 A 20210113**

Priority  
• US 202062969780 P 20200204  
• US 202117141093 A 20210104

Abstract (en)  
[origin: EP3862048A1] An implantable system (100) includes an atrial leadless pacemaker (aLP) (102) and a ventricular leadless pacemaker (vLP) (104) having a memory (156) storing a paced atrial activation morphology template (604) corresponding to far-field atrial signal components expected to be present in a vEGM sensed by the vLP (104) when an atrial pacing pulse delivered by the aLP (102) captures atrial tissue. The vLP (104) senses a vEGM and compares a morphology of a portion of the sensed vEGM to the paced atrial activation morphology template (604) to determine whether a match therebetween is detected. Additionally, the vLP (104) determines whether atrial capture occurred or failed to occur (responsive to an atrial pacing pulse), based on whether the vLP (104) detects a match between the morphology of a portion of the sensed vEGM and the paced atrial activation morphology template (604).

IPC 8 full level  
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CPC (source: CN EP US)  
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Cited by  
EP4279122A1; WO2023208536A1

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
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**EP 21151348 A 20210113**; CN 202110155801 A 20210204; EP 23181350 A 20210113; US 202117141093 A 20210104; US 202217897041 A 20220826